

COMMONWEALTH OF AUSTRALIA

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Family Name	
Given Names	
Student Number	
Teaching Period	Semester 2, 2015

FINAL EXAMINATION	DURATION
SBI284 – Histology and Histochemistry	
	Reading Time: 10 minutes
	Writing Time: 120 minutes

INSTRUCTIONS TO CANDIDATES

1.1 The examination has A, B & C sections

Section A: Suggested Time: 30 minutes

Multiple Choice Questions: Answer ALL 30 questions on the **answer sheet** provided.

Marks:30

Section B: Suggested Time: 30 minutes

Short Answer Questions: Answer ALL 5 questions in the **booklet** provided.

Marks: 30

Section C: Suggested Time: 60 minutes

Short Essay Questions: Answer ALL 5 questions in the **booklet** provided.

Marks: 40

Section A must be answered on the Multiple Choice Answer sheet. Please ensure that your name and student number are clearly indicated on your answer sheet and at the top of this examination paper.

Section B and Section C must be answered in the booklets.

- 1.2 Note that questions ARE NOT of equal value.
- 1.3 Read ALL questions carefully.
- 1.4 Do not commence writing until instructed to do so.

EXAM CONDITIONS

This is a CLOSED BOOK examination

No calculators are permitted

No handwritten notes are permitted

No dictionaries are permitted

Answer on the supplied examination material/s only

ADDITIONAL AUTHORISED MATERIALS	EXAMINATION MATERIALS TO BE SUPPLIED
No additional printed material is permitted	1 x 16 Page Book 1 x 4-Multiple Choice Answer Sheet

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Section A

Multiple Choice Questions

Total No of Marks for this section: 30

This section should be answered on the **Answer Sheet** provided. Please ensure that your name and student number have been written on the Answer sheet and place in the completed answer Booklet.

Marks for each question are indicated. Suggested Time allocation for Section A: 30mins

Section B

Short Answer Questions

Total No of Marks for this section: 30

This section should be answered in the **Answer Booklet** provided.

Marks for each question are indicated. Suggested Time allocation for Section B: 30 mins

Question 1

Describe the differences between lactating and resting breast tissue.

(Marks: 6)

Question 2

Compare the procedures you would use to stain for carbohydrates, lipids and proteins. In your answer include fixatives and stains that would be most appropriate.

(Marks: 6)

Question 3

Draw the structure of the thyroid gland and label the main features. Compare the functions of the thyroid to that of the parathyroid gland.

(Marks: 6)

Question 4

Explain the principles of immunohistochemistry. In your answer you should compare immunofluorescence and enzyme immunohistochemistry.

(Marks: 7)

Question 5

Explain the concept of amyloidosis, which organs of the body it can be detected in and how you would go about identifying it in tissue.

(Marks: 5)

Section C
Short Essay Questions

Total Number of Marks for this section: 40

This section should be answered in the **Answer Booklet** provided.

Marks for each question are indicated. Suggested Time allocation for Section C: 60 mins

Question 1

Compare and contrast cardiac vs smooth vs skeletal muscle. Use tables if suitable.

(Marks: 8)

Question 2

List all the types of epithelium and provide one example of each. Use tables if suitable.

(Marks: 10)

Question 3

Describe the different components of the small intestine.

(Marks: 8)

Question 4

Draw, label and explain the structure of the bronchus.

(Marks: 8)

Question 5

Describe the changes that occur within the endometrium as a result of the menstrual cycle.

(Marks: 6)